AGPS-2-2 Parallel Gripper
Single Finger, One Fixed Jaw

FEATURES AND BENEFITS
• T-Slot bearing support for the carriage and end plate offers superior load bearing performance throughout the stroke.
• Standard built-in stroke adjustment and stroke lock for precise, repetitive operation.
• Compact, lightweight unit with built-in cylinder.
• Piston seals are U-CUP type for long service life.
• Hall Effect sensors are available to monitor stroke position.
• Multiple mounting surfaces on the body and endplate with threaded and counterbored holes for easy mounting choices.
• Adjustable stroke on extend and retract.

SPECIFICATIONS
Design: Built-in air cylinder
T-slot slide

Stroke: 1 in [25.4 mm]
Thrust Force @ 80 PSI [5.5 BAR]
Extended: 35 lbs [155 N]
Retract: 33 lbs [146 N]

Recommended Speed: 2-12 in/sec [0.5-.3 m/sec]

Pressure Range: Low/High 20-120 PSI [1.4-8 BAR]
Temperature Range: Low/High -20˚/150˚F [-28˚/80˚C]

Side Play: ± 0.001 [.03 mm]
Maximum Payload: 13 lbs [5.9 kg]
Material: High Strength, Aluminum Alloys, Bronze
Weight: 5.6 oz [160 g]
Piston Diameter: .750 in [19 mm]

January 2008 - PATENTED Made in the USA

MAXIMUM FORCES & MOMENTS

<table>
<thead>
<tr>
<th>Force Type</th>
<th>Static (lbs)</th>
<th>Dynamic (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile</td>
<td>140 [622 N]</td>
<td>60 [266 N]</td>
</tr>
<tr>
<td>Compressive</td>
<td>140 [622 N]</td>
<td>60 [266 N]</td>
</tr>
</tbody>
</table>

Max Moment

<table>
<thead>
<tr>
<th>Moment Type</th>
<th>Static (lbs-in)</th>
<th>Dynamic (lbs-in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mx</td>
<td>70 [8 Nm]</td>
<td>30 [3.4 Nm]</td>
</tr>
<tr>
<td>My</td>
<td>70 [8 Nm]</td>
<td>30 [3.4 Nm]</td>
</tr>
<tr>
<td>Mz</td>
<td>70 [8 Nm]</td>
<td>30 [3.4 Nm]</td>
</tr>
</tbody>
</table>

HOW TO ORDER
When ordering, please specify:
Design/Model Number and Options.

SENSOR TYPE
1 = NPN
2 = PNP

SENSOR OPTIONS*
1 = LEFT
2 = RIGHT
3 = BOTH

SENSOR CONNECTOR
1 = POTTED
2 = QUICK DISCONNECT
3 = QUICK DISCONNECT WITH RIGHT ANGLE

* NOTE: Hall Effect sensors are hard wired with 20" pigtail.
Sensor Part # SHN01, SHP01, SHNQ3, SHPQ3

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Unless noted, all tolerances are as indicated here:

- All Dowel Holes are SF (Slip Fit) Locational Tolerance ± .0005" [.013mm]
- Metric Threads Course Pitch

Imperial: 0.00 = ± .01 0.000 = ± .005
Metric: [0.] = ± .25 [0.0] = ± .13

American Grippers, Inc.  171 Spring Hill Road, Trumbull, CT  06611  Tel: 203-459-8345  Fax: 203-452-5943
info@AGI-Automation.com • www.AGI-Automation.com